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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

11

Complete if Known

Application Number

09/724,961

Filing Date

November 28, 2001

First Named Inventor

Schenk, Dale B.

Group Art Unit

777-167

Examiner Name

Unassigned ASIC HOLDS

Attorney Docket Number

15270J-004752US

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	196	6,150,091		Pandolfo et al.	11-21-2000	
	1	6,057,367		Stamler et al.	05-02-2000	
	2	5,958,883		Snow	09-28-1999	
	3	5,955,317		Suzuki et al.	09-21-1999	
	4	5,955,079		Mond et al.	09-21-1999	
	5	5,877,399		Hsiao et al.	03-02-1999	
	6	5,869,093		Weiner et al.	02-09-1999	
	7	5,869,054		Weiner et al.	02-09-1999	
	8	5,854,204		Findeis et al.	12-29-1998	
	9	5,851,996		Kline	12-22-1998	
	10	5,849,298		Weiner et al.	12-15-1998	
	11	5,837,473		Maggio e al.	11-17-1998	
	12	5,786,180		Konig et al.	07-28-1998	
	207	5,780,587		Potter	07-14-1998	
	13	5,753,624		McMichael et al.	05-19-1998	
	14	5,750,349		Suzuki et al.	05-12-1998	
	197	5,744,368		Goldgaber et al.	04-28-1998	
	211	5,736,142		Sette et al.	04-07-1998	
	15	5,733,547		Weiner et al.	03-31-1998	
	16	5,688,651		Solomon	11-18-1997	
	17	5,679,348		Nesburn et al.	10-21-1997	
	18	5,645,820		Hafler et al.	07-08-1997	
	19	5,641,474		Hafler et al.	06-24-1997	
	20	5,641,473		Hafler et al.	06-24-1997	
	21	5,612,486		McConlogue et al.	03-18-1997	
	22	5,605,811		Seubert et al.	02-25-1997	
	23	5,585,100		Mond et al.	12-17-1996	
	24	5,571,500		Hafler et al.	11-05-1996	
	25	5,571,499		Hafler et al.	11-05-1996	
	175	5,441,870		Seubert, et al.	08-15-1995	
	26	5,434,170		Andrulis, Jr.	07-18-1995	
	27	5,387,742		Cordell	02-07-1995	
	181	5,270,165		Van Nostrand et al.	12-14-1993	
	28	5,231,000		Majocha et al.	07-27-1993	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit TTT / 672
Examiner Name Unassigned Nichols
Attorney Docket Number 15270J-004752US

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29	5,220,013	Ponte et al.	06-15-1993
30	5,208,036	Eppstein et al.	05-04-1993
31	5,192,753	McGeer et al.	03-09-1993
32	5,187,153	Cordell et al.	02-16-93
33	5,057,540	Kensil et al.	10-15-1991
198	5,004,697	Pardridge	04-0201991
34	4,666,829	Glenner et al.	05-19-1987

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	35	EP	911 036	A2		04-28-1999		<input type="checkbox"/>
	36	EP	868 918	A2		10-07-1998		<input type="checkbox"/>
	37	EP	863 211	A1		09-09-1998		<input type="checkbox"/>
	38	EP	845 270	A1		06-03-1998		<input type="checkbox"/>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 11

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	4771-1647
Examiner Name	Unassigned - NICHOLS
Attorney Docket Number	15270J-004752US

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58	PCT	99/27944	A1		06-10-1999	<input type="checkbox"/>
59	PCT	99/27911	A1		06-10-1999	<input type="checkbox"/>
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84	PCT	91/08760	A1		06-27-1991	<input type="checkbox"/>
85	PCT	90/12871	A1		11-01-1990	<input type="checkbox"/>
86	PCT	90/12870	A1		11-01-1990	<input type="checkbox"/>
87	PCT	89/01343	A1		02-23-1989	<input type="checkbox"/>
88	PCT	89/06242	A1		07-13-1989	<input type="checkbox"/>
89	PCT	89/06689	A1		07-27-1989	<input type="checkbox"/>
90	PCT	89/03687	A1		05-05-1989	<input type="checkbox"/>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 11

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Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	4774-1677
Examiner Name	Unassigned DICTORS
Attorney Docket Number	15270J-004752US

91	PCT	88/10120	A1	12-29-1988	<input type="checkbox"/>
92	GB	2 220 211	A	01-04-1990	<input type="checkbox"/>
93	GB	2 335 192	A	09-15-1999	<input type="checkbox"/>



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 11

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Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 4774 1647
Examiner Name Unassigned D. C. H. S.
Attorney Docket Number 15270J-004752US

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	94	ANDERSEN et al., "Do nonsteroidal anti-inflammatory drugs decrease the risk for Alzheimer's disease?," <u>Neurology</u> , 45:1441-1445 (1995).	<input type="checkbox"/>
	95	Associated Press, "Immune cells may promote Alzheimer's, a study finds," <u>The Boston Globe</u> (4/13/95).	<input type="checkbox"/>
	96	BAUER et al., "Interleukin-6 and α -2-macroglobulin indicate an acute-phase state in Alzheimer's disease cortices," <u>FEBS Letters</u> , 285(1):111-114 (1991).	<input type="checkbox"/>
	204	BERCOVICI et al., "Chronic Intravenous Injections of Antigen Induce and Maintain Tolerance in T Cell Receptor-Transgenic Mice," <u>Eur. J. Immunol.</u> , 29:345-354 (1999).	<input type="checkbox"/>
	212	BICKEL et al., "Site Protected, Cationized Monoclonal Antibody Against Beta Amyloid as a Potential Diagnostic Imaging Technique for Alzheimer's Diseases," <u>Soc. for Neuroscience Abstracts</u> 18:764 (1992).	<input type="checkbox"/>
	176	BARD et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <u>Nature Medicine</u> , 6(8):916-919 (2000).	<input type="checkbox"/>
	97	BLASS, John P., "Immunologic Treatment of Alzheimer's Disease," <u>New England J. Medicine</u> , 341(22):1694 (1999).	<input type="checkbox"/>
	98	BODMER et al., "Transforming Growth Factor-Beta Bound to Soluble Derivatives of the Beta Amyloid Precursor Protein of Alzheimer's Disease," <u>Biochem. Biophys. Res. Comm.</u> , 171(2):890-897 (1990).	<input type="checkbox"/>
	99	BORCHELT et al., "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins," <u>Neuron</u> , 19: 939-945 (1997).	<input type="checkbox"/>
	100	BORIS-LAWRIE et al., "Recent advances in retrovirus vector technology," <u>Cur. Opin. Genet. Develop.</u> , 3: 102-109 (1993).	<input type="checkbox"/>
	101	BRICE et al., "Absence of the amyloid precursor protein gene mutation (APP717: Val->Ile) in 85 cases of early onset Alzheimer's disease," <u>J. Neurology, Neurosurg. Psychiatry</u> , 56:112-115 (1993).	<input type="checkbox"/>
	102	CHAO et al., "Transforming Growth Factor- β Protects human Neurons Against β -Amyloid-Induced Injury," <u>Soc. Neurosci. Abstracts</u> , 19:513.7 (1993).	<input type="checkbox"/>
	213	CHEN et al. "An Antibody to β Amyloid Precursor Protein Inhibits Cell-substratum Adhesion in Many Mammalian Cell Types," <u>Neuroscience Letters</u> 125:223-226 (1991).	<input type="checkbox"/>
	214	DEMATTOS et al., "Peripheral Anti A β Antibody Alters CNS And Plasma A β Clearance and Decreases Brain A β Burden in a Mouse Model of Alzheimer's Disease," <u>Proc. Natl. Acad. Sci. USA</u> , 10.1073/pnas.151261398 (2001).	<input type="checkbox"/>
	103	DUFF et al., "Mouse model made," <u>Nature</u> , 373: 476-477 (1995).	<input type="checkbox"/>
	104	ELIZAN et al., "Antineurofilament antibodies in a postencephalitic and idiopathic Parkinson's disease," <u>J. Neurol. Sciences</u> , 59:341-347 (1983).	<input type="checkbox"/>

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Sheet 6 of 11

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Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	777-1647
Examiner Name	Unassigned NICHOLS SEP 26 2001
Attorney Docket Number	15270J-004752US

105	FELSENSTEIN et al., "Processing of the β -amyloid precursor protein carrying the familial, Dutch-type, and a novel recombinant C-terminal mutation," <u>Neuroscience Letters</u> , 152:185-189 (1993).	
106	FINCH et al., "Evolutionary Perspectives on Amyloid and Inflammatory Features of Alzheimer Disease," <u>Neurobiology of Aging</u> , 17(5):809-815 (1996).	<input type="checkbox"/>
107	FISHER et al., "Expression of the amyloid precursor protein gene in mouse oocytes and embryos," <u>PNAS</u> , 88:1779-1782 (1991).	<input type="checkbox"/>
108	FLANDERS et al., "Altered expression of transforming growth factor- β in Alzheimer's disease," <u>Neurology</u> , 45:1561-1569 (1995).	<input type="checkbox"/>
210	FRIEDLAND et al., "Development of an anti- $A\beta$ monoclonal antibody for in vivo imaging of amyloid angiopathy in Alzheimer's disease," <u>Mol. Neurology</u> , 9:107-113 (1994).	<input type="checkbox"/>
109	GAMES et al., "Alzheimer-type neuropathology in transgenic mice overexpressing V717F β -amyloid precursor protein," <u>Nature</u> , 373(6514): 523-527 (1995).	<input type="checkbox"/>
215	GAMES et al., "Prevention and Reduction of AD-type Pathology in PDAPP Mice Immunized with $A\beta_{1-42}$," <u>Annals of the New York Academy of Science</u> 920:274-84 (2000).	<input type="checkbox"/>
110	GANDY et al., "Amyloidogenesis in Alzheimer's disease: some possible therapeutic opportunities," <u>TIPS</u> , 13:108-113 (1992).	<input type="checkbox"/>
111	GASKIN et al., "Human antibodies reactive with beta-amyloid protein in Alzheimer's disease," <u>J. Exp. Med.</u> , 177:1181-1186 (1993).	<input type="checkbox"/>
112	GLENN et al., "Skin immunization made possible by cholera toxin," <u>Nature</u> , 391: 851 (1998).	<input type="checkbox"/>
113	GLENNER et al., "Alzheimer's Disease: Initial Report of the Purification and Characterization of a Novel Cerebrovascular Amyloid Protein," <u>Biochemical and Biophysical Research Communications</u> , 120(3): 885-890 (1994).	<input type="checkbox"/>
114	GLENNER et al., "Alzheimer's Disease and Downs Syndrome: Sharing of A Unique Cerebrovascular Amyloid Fibril Protein," <u>Biochemical and Biophysical Research Communications</u> , 122(3): 1131-1135 (1984).	<input type="checkbox"/>
115	GOATE et al., "Segregation of a missense mutation in the amyloid precursor protein gene with familial Alzheimer's disease," <u>Nature</u> , 349:704-706 (1991).	<input type="checkbox"/>
116	GOZES et al., "Neuroprotective strategy for Alzheimer disease: Intranasal administration of a fatty neuropeptide," <u>PNAS</u> , 93:427-432 (1996).	<input type="checkbox"/>
190	GRAVINA et al., "Amyloid β Protein ($A\beta$) in Alzheimer's Disease," <u>J. Biol. Chem.</u> , 270(13):7013-7016 (1995).	<input type="checkbox"/>
117	GUPTA et al., "Differences in the immunogenicity of native and formalized cross reacting material (CRM197) of diphtheria toxin in mice and guinea pigs and their implications on the development and control of diphtheria vaccine based on CRMs," <u>Vaccine</u> , 15(12/13): 1341-1343 (1997).	<input type="checkbox"/>
118	HAGA et al., "Synthetic Alzheimer amyloid β /A4 peptides enhance production of complement C3 component by cultured microglial cells," <u>Brain Research</u> , 601:88-94 (1993).	<input type="checkbox"/>
119	HANES et al., "New advances in microsphere-based single-dose vaccines," <u>Advanced Drug Delivery Reviews</u> , 28: 97-119 (1997).	<input type="checkbox"/>

Examiner Signature		Date Considered	12-8-02
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Application Number

09/724,961

Filing Date

November 28, 2001

First Named Inventor

Schenk, Dale B.

Group Art Unit

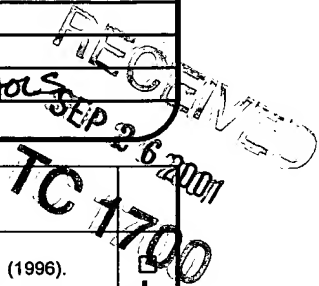
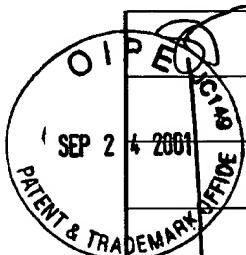
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Examiner Name

Unassigned MICHAEL

Attorney Docket Number

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120	HARDY, "Amyloid, the presenilins and Alzheimer's disease," <u>TINS</u> , 20(4): 154-159 (1997).	
121	HARDY, John, "New Insights into the Genetics of Alzheimer's Disease," <u>Annals of Med.</u> , 28:255-258 (1996).	
193	HARRINGTON et al., "Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognised by a monoclonal antibody raised against a synthetic peptide corresponding to the C-terminus of β / A4-protein," <u>Biochimica Biophysica Acta</u> , 1158:120-128 (1993).	
177	HELMUTH, L., "Further Progress on a β -Amyloid Vaccine," <u>Science</u> , 289:375 (2000).	
122	HSIAO et al., "Correlative Memory Deficits, A β Elevation, and Amyloid Plaques in Transgenic Mice," <u>Science</u> , 274: 99-102 (1996).	
123	HUBERMAN et al., "Correlation of cytokine secretion by mononuclear cells of Alzheimer's patients and their disease stage," <u>J. Neuroimmunology</u> , 52:147-152 (1994).	
124	HYMAN et al., "Molecular Epidemiology of Alzheimer's Disease," <u>N. E. J. Medicine</u> , 333(19):1283-1284 (1995).	
125	ITAGAKI et al., "Relationship of microglia and astrocytes to amyloid deposits of Alzheimer's disease," <u>J. Neuroimmunology</u> , 24:173-182 (1989).	<input type="checkbox"/>
192	IWATSUBO et al., "Visualization of A β 42(43) and A β 40 in Senile Plaques with End-Specific A β Monoclonals: Evidence That an Initially Deposited Species Is A β 42(43)," <u>Neuron</u> , 13:45-53 (1994).	<input type="checkbox"/>
126	JANSEN et al., "Immunotoxins: Hybrid Molecules Combining High Specificity and Potent Cytotoxicity," <u>Immun. Rev.</u> , 62: 185-216 (1982).	<input type="checkbox"/>
216	JOACHIM et al., "Antibodies to Non-beta Regions of the Beta-amyloid Precursor Protein Detect a Subset of Senile Plaques," <u>Am. J. of Pathology</u> 138:373-378 (1991).	<input type="checkbox"/>
127	KALARIA, R. N., "Serum amyloid P and related molecules associated with the acute-phase response in Alzheimer's disease," <u>Res. Immunology</u> , 143:637-641 (1992).	<input type="checkbox"/>
183	KATZAV-GOZANSKY et al., "Effect of monoclonal antibodies in preventing carboxypeptidase A aggregation," <u>Biotechnol. Appl. Biochem.</u> , 23:227-230 (1996).	<input type="checkbox"/>
128	KAWABATA et al., "Amyloid plaques, neurofibrillary tangles and neuronal loss in brains of transgenic mice overexpressing a C-terminal fragment of human amyloid precursor protein," <u>Nature</u> , 354:476-478 (1991).	<input type="checkbox"/>
195	KONIG et al., "Development and Characterization of a Monoclonal Antibody 369.2B Specific for the Carboxyl-Terminus of the pA4 Peptide," <u>Annals of NY Acad. Sci.</u> , 777:344-355 (1996).	<input type="checkbox"/>
129	LAMPERT-ETCHELLS et al., "Regional Localization of Cells Containing Complement C1q and C4 mRNAs in the Frontal Cortex During Alzheimer's Disease," <u>Neurodegeneration</u> , 2:111-121 (1993).	<input type="checkbox"/>
130	LANGER, "New Methods of Drug Delivery," <u>Science</u> , 249: 1527-1532 (1990).	<input type="checkbox"/>
131	LANNFELT et al., "Alzheimer's disease: molecular genetics and transgenic animal models," <u>Behavioural Brain Res.</u> , 57:207-213 (1993).	<input type="checkbox"/>

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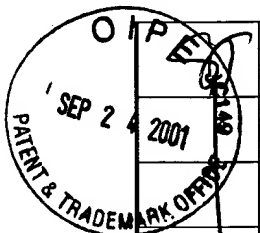
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Sheet 8 of 11

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Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	4774-Loft
Examiner Name	Unassigned NICHOLS
Attorney Docket Number	15270J-004752US



132	LEMERE et al., "Mucosal Administration of A β Peptide Decreases Cerebral Amyloid Burden in Pd-App Transgenic Mice," <u>Society for Neuroscience Abstracts</u> , vol. 25, part I, Abstract 519.6, 29th Annual Meeting, (October 23-28, 1999).	
133	LIVINGSTON et al., "The Hepatitis B Virus-Specific CTL Responses Induced in Humans by Lipopeptide Vaccination Are Comparable to Those Elicited by Acute Viral Infection," <u>J. Immunol.</u> , 159: 1383-1392 (1997).	
134	LOPEZ et al., "Serum auto-antibodies in Alzheimer's disease," <u>Acta. Neurol. Scand.</u> , 84:441-444 (1991).	
218	MAJOCHA et al., "Development of a Monoclonal Antibody Specific for β /A4 Amyloid in Alzheimer's Disease Brain for Application to In Vitro Imaging of Amyloid Angiopathy," <u>The J. of Nuclear Med.</u> , 33:2184-2189 (1992).	
217	MASTERS et al., "Amyloid Plaque core protein in Alzheimer Disease and Down Syndrome," <u>Proc. Natl. Acad. Sci. USA</u> , 82:4245-4249 (1985).	
135	MCGEE et al., "The encapsulation of a model protein in poly (D, L lactide-co-glycolide) microparticles of various sizes: an evaluation of process reproducibility," <u>J. Micro. Encap.</u> , 14(2): 197-210 (1997).	
136	MEDA et al., "Activation of microglial cells by β -amyloid protein and interferon- γ ," <u>Nature</u> , 374:647-650 (1995).	
137	MILLER et al., "Antigen-driven Bystander Suppression after Oral Administration of Antigens," <u>J. Exp. Med.</u> , 174:791-798 (1991).	<input type="checkbox"/>
206	MORI et al., "Mass Spectrometry of Purified Amyloid β Protein in Alzheimer's Disease," <u>J. Biol. Chem.</u> , 267(24):17082-17088 (1992).	<input type="checkbox"/>
191	MURPHY et al., "Development of a Monoclonal Antibody Specific for the COOH-Terminal of β -Amyloid 1-42 and Its Immunohistochemical Reactivity in Alzheimer's Disease and Related Disorders," <u>Am. J. Pathology</u> , 144(5):1082-1088 (1994).	<input type="checkbox"/>
138	NATHANSON et al., "Bovine Spongiform Encephalopathy (BSE): Causes and Consequences of a Common Source Epidemic," <u>Am. J. Epidemiol.</u> , 145(11): 959-969 (June 1, 1997).	<input type="checkbox"/>
139	New York Times National, "Anti-Inflammatory Drugs May Impede Alzheimer's," (2/20/94).	<input type="checkbox"/>
140	PARESCHE et al., "Microglial cells influence aggregates of the Alzheimer's disease amyloid beta-protein via a scavenger receptor," <u>Neuron</u> , 17:553-565 (September 1996).	<input type="checkbox"/>
141	PAUL et al., "Transdermal immunization with large proteins by means of ultradeformable drug carriers," <u>Eur. J. Immunol.</u> , 25: 3521-3524 (1995).	<input type="checkbox"/>
142	PRIEELS et al., "Synergistic adjuvants for vaccines," <u>Chemical Abstracts</u> , 120(8): pg. 652, column 1, abstract 86406t (1994).	<input type="checkbox"/>
143	QUON et al., "Formation of β -Amyloid protein deposits in brains of transgenic mice," <u>Nature</u> , 352:239-241 (1991).	<input type="checkbox"/>
144	RASO, V.A., Grant application # 1-R43-AG1-5746-01, (publication date unknown)	<input type="checkbox"/>
145	RASO, "Immunotherapy of Alzheimer's Disease," <u>Immunotherapy Weekly</u> , Abstract (April 2, 1998).	<input type="checkbox"/>

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Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	1774-1647
Examiner Name	Unassigned
Attorney Docket Number	15270J-004752US

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146	ROGERS et al., "Complement activation by β -amyloid in Alzheimer Disease," <u>PNAS</u> , 89:1-5 (1992).	<input type="checkbox"/>
147	ROSSOR et al., "Alzheimer's Disease Families with Amyloid Precursor Protein Mutations," <u>Annals of New York Academy of Sciences</u> , 695:198-202 (1993).	<input type="checkbox"/>
209	RUDINGER, "Characteristics of the Amino Acids as Components of a Peptide Hormone Sequence," in <u>Peptide Hormones</u> , J.A. Parson, ed. University Park Press, Baltimore, pp 1-7 (1976).	<input type="checkbox"/>
189	SAIDO et al., "Spatial Resolution of Fodrin Proteolysis in Postischemic Brain," <u>J. Biol. Chem.</u> , 268(33):25239-25243 (1993).	<input type="checkbox"/>
194	SAIDO et al., "Spatial Resolution of the Primary β -Amyloidogenic Process Induced in Postischemic Hippocampus," <u>J. Biol. Chem.</u> , 269(21):15253-15257 (1994).	<input type="checkbox"/>
178	SCHENK et al., "Therapeutic Approaches Related to Amyloid- β Peptide and Alzheimer's Disease," <u>J. Med. Chem.</u> , 38(21):4141-4154 (1995).	<input type="checkbox"/>
148	SCHENK et al., "Immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <u>Nature</u> , 400:173-177 (1999).	<input type="checkbox"/>
149	SELKOE, D.J., "Imaging Alzheimer's Amyloid," <u>Nat. Biotech.</u> , 18:823-824 (2000).	<input type="checkbox"/>
150	SELKOE, "Alzheimer's Disease: A Central Role for Amyloid," <u>J. Neuropathol. Exp. Neurol.</u> , 53(5): 438-447 (1994).	<input type="checkbox"/>
151	SELKOE, "Physiological production of the β -amyloid protein and the mechanism of Alzheimer's disease," <u>Trends in Neurosciences</u> , 16(10): 403-409 (1993).	<input type="checkbox"/>
152	SELKOE, Dennis J., "Amyloid Protein and Alzheimer's Disease.....," <u>Scientific American</u> , pgs. 68-78 (November, 1991).	<input type="checkbox"/>
153	SELKOE, Dennis J., "In the Beginning....," <u>Nature</u> , 354:432-433 (1991).	<input type="checkbox"/>
154	SELKOE, Dennis J., "The Molecular pathology of Alzheimer's Disease," <u>Neuron</u> , 6:487-498 (1991).	<input type="checkbox"/>
155	SELKOE, Dennis J., "Alzheimer's Disease: Genotypes, Phenotype, and Treatments," <u>Science</u> , 275:630-631 (1997).	<input type="checkbox"/>
156	SEUBERT et al., "Isolation and quantification of soluble Alzheimer's β -peptide from biological fluids," <u>Nature</u> , 359: 325-327 (1992).	<input type="checkbox"/>
157	SHIOSAKA, S., "Attempts to make models for Alzheimer's disease," <u>Neuroscience Res.</u> , 13:237-255 (1992).	<input type="checkbox"/>
158	SMITS et al., "Prion Protein and Scrapie Susceptibility," <u>Vet. Quart.</u> , 19(3): 101-105 (1997).	<input type="checkbox"/>
159	SOLOMON et al., "Disaggregation of Alzheimer β -amyloid by site-directed mAb," <u>PNAS</u> , 94:4109-4112 (1997).	<input type="checkbox"/>

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Sheet 10 of 11

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Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 4774-1647
Examiner Name Unassigned-NIC HOLLS
Attorney Docket Number 15270J-004752US

160	SOLOMON et al., "Monoclonal antibodies inhibit in vitro fibrillar aggregation of the Alzheimer β -amyloid peptide," <i>PNAS</i> , 93:452-455 (1996).	
161	SOLOMON, A., "Pro-Rx (Protein Therapeutics)," University of Tennessee Medical Center (publication date unknown).	
162	SOLOMON, B., "New Approach Towards Fast Induction of Anti β-Amyloid Peptide Immune Response," Department of Molecular Microbiology & Biotechnology, Tel-Aviv University, Ramat-Aviv, Tel-Aviv, Israel (publication date unknown).	
182	SOLOMON et al., "Inhibitory effect of monoclonal antibodies on Alzheimer's β -amyloid peptide aggregation," <i>Int. J. Exp. Clin. Invest.</i> , 3:130-133 (1996).	
184	SOLOMON et al., "Thermal Stabilization of Carboxypeptidase A as a Function of PH and Ionic Milieu," <i>Biochem. Mol. Biol. Int.</i> , 43(3):601-611 (1997).	<input type="checkbox"/>
185	SOLOMON et al., "Modulation of The Catalytic Pathway of Carboxypeptidase A by Conjugation with Polyvinyl Alcohols," <i>Adv. Mol. Cell Biology</i> , 15A:33-45 (1996).	<input type="checkbox"/>
186	SOLOMON et al., "Activity of monoclonal antibodies in prevention of in vitro aggregation of their antigens," abstract from Department of Molecular Microbiology and Biotechnology, Tel-Aviv University, Tel-Aviv, Israel (publication date unknown).	<input type="checkbox"/>
179	SOUTHWICK et al., "Assessment of Amyloid β protein in Cerebrospinal fluid as an Aid in the Diagnosis of Alzheimer's Disease," <i>J. Neurochemistry</i> , 66:259-265 (1996).	<input type="checkbox"/>
163	STOUTE et al., "A Preliminary Evaluation of a Recombinant Circumsporozoite Protein Vaccine Against <i>Plasmodium Falciparum</i> Malaria," <i>N. Engl. J. Med.</i> , 336(2): 86-91 (1997).	<input type="checkbox"/>
164	STURCHLER-PIERRAT et al., "Two amyloid precursor protein transgenic mouse models with Alzheimer disease-like pathology," <i>PNAS</i> , 94: 13287-13292 (1997).	<input type="checkbox"/>
165	TANAKA et al., "NC-1900, an active fragment analog of arginine vasopressin, improves learning and memory deficits induced by beta-amyloid protein in rats," <i>European J. Pharmacology</i> , 352:135-142 (1998).	<input type="checkbox"/>
166	TRIEB et al., "Is Alzheimer beta amyloid precursor protein (APP) an autoantigen? Peptides corresponding to parts of the APP sequence stimulate T lymphocytes in normals, but not in patients with Alzheimer's disease," <i>Immunobiology</i> , 191(2-3):114-115 Abstract C.37, (1994).	<input type="checkbox"/>
167	VAN GOOL et al., "Concentrations of amyloid- β protein in cerebrospinal fluid increase with age in patients free from neurodegenerative disease," <i>Neuroscience Letters</i> , 172:122-124 (1994).	<input type="checkbox"/>
168	VERBEEK et al., "Accumulation of Intercellular Adhesion Molecule-1 in Senile Plaques in Brain Tissue of patients with Alzheimer's Disease," <i>Amer. Journ. Pathology</i> , 144(1):104-116 (1994).	<input type="checkbox"/>
169	WALKER et al., "Labeling of Cerebral Amyloid In Vivo with a Monoclonal Antibody," <i>J. Neuropath. Exp. Neurology</i> , 53(4):377-383 (1994).	<input type="checkbox"/>
180	WEN, G.Y., "Alzheimer's Disease and Risk Factors," <i>J. Food Drug Analysis</i> , 6(2):465-476 (1998).	<input type="checkbox"/>
170	WENGENACK et al., "Targeting Alzheimer amyloid plaques in vivo," <i>Nature Biotech.</i> , 18:868-824 (2000).	<input type="checkbox"/>
171	WEINER et al., "ORAL TOLERANCE: Immunologic Mechanisms and Treatment of Animal and Human Organ-Specific Autoimmune Diseases by Oral Administration of Autoantigens," <i>Annu. Rev. Immunol.</i> , 12:809-837 (1994).	<input type="checkbox"/>

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Sheet 11 of 11

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Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	1774-1647
Examiner Name	Unassigned PICHOLS
Attorney Docket Number	15270J-004752US

172	WEISSMANN et al., "Bovine spongiform encephalopathy and early onset variant Creutzfeldt-Jakob disease," <u>Curr. Opin. Neurobiol.</u> , 7: 695-700 (1997).	<input type="checkbox"/>
219	WONG et al., "Neuritic Plaques and Cerebrovascular Amyloid in Alzheimer Disease are Antigenically Related," <u>Proc. Natl. Acad. Sci. USA</u> , 82:8729-8732 (1985).	<input type="checkbox"/>
173	WOOD et al., "Amyloid precursor protein processing and A β 42 deposition in a transgenic mouse model of Alzheimer disease," <u>PNAS</u> , 94: 1550-1555 (1997).	<input type="checkbox"/>
174	Human-Immunology & Cancer Program brochure, from The University of Tennessee Medical Center/ Graduate School of Medicine, Knoxville, Tennessee (publication date unknown).	<input type="checkbox"/>

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Sheet 1 of 6

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Application Number 09/724,961
Filing Date November 28, 2000
First Named Inventor Schenk, Dale B.
Group Art Unit 1647
Examiner Name Turner, Sharon
Attorney Docket Number 15270J-004752US

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U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
	267	6,294,171	B2	McMichael	09-25-2001	
	234	6,284,221	B1	Schenk, et al.	09-04-2001	
	300	2001/0018053	A1	McMichael	08-30-2001	
	230	6,262,335	B1	Hsiao et al.	07-17-2001	
	231	6,114,133		Seubert et al.	09-05-2000	
	221	5,989,566		Cobb et al.	11-23-1999	
	284	5,231,170		Averback	07-27-1993	
	242	60/168,594		Chalfour et al.	N/A	
	282	60/169,687		Chain	N/A	
	295	60/184,001		Holtzman et al.	N/A	
	299	60/186,295		Rasmussen et al.	N/A	
	290	60/254,465		Holtzman et al.	N/A	
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	243	PCT	01/39796	A2		06-07-2001		
	298	PCT	01/42306	A2		06-14-2001		
	301	PCT	01/62284	A2		03-01-2000		
	294	PCT	01/62801	A2		08-30-2001		
	240	PCT	00/43039	A1		07-27-2000		
	227	PCT	95/11008	A2		04-27-1995		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 6

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Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ST	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" <u>J. Mol. Biol.</u> , 225(4): 1075-1093 (1992).	
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging," Reuters, April 20, 2001 7:56 PM ET.	
	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <u>Clin. Neuropharm.</u> , 15:414A-414B (1992).	
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at : http://www.fda.gov/cber/vaccine/thimerosal.htm , last updated May 16, 2002.	
ST	266	CHAPMAN, PAUL F., "Model behavior," <u>Nature</u> , 408:915-916 (2000).	
	222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database, (Publication date unknown.) <i>improper format</i>	
ST	302	CHUNG et al. "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <u>J. Biol. Chem.</u> , 274(45):32301-32308 (1999).	
	291	COLOMA et al., "Transport Across the Primate Blood-Brain Barrier of a Genetically Engineered Chimeric Monoclonal Antibody to the Human Insulin Receptor," <u>Pharm. Res.</u> , 17:266-274 (2000).	
	286	CORDELL, B., " β -Amyloid formation as a potential therapeutic target for Alzheimer's disease," <u>Ann. Rev. Pharmacol. Toxicol.</u> , 34:69-89 (1994).	
	287	COSTA et al., "Immunoassay for transthyretin variants associated with amyloid neuropathy," <u>Scand. J. Immunol.</u> , 38:177-182 (1993).	
ST	293	DALY, et al., "Detection of the membrane-retained carboxy-terminal tail containing polypeptides of the amyloid precursor protein in tissue from Alzheimer's Disease brain," <u>Life Sci.</u> , 63:2121-2131 (1998).	
	220	Dialog Derwent, Abstract of WPI-Acc-No: 1997-054436/199706: Stable vaccine compsns. comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol. organic solvent and saline or water. Derwent File 354: Derwent WPI database, (Publication date unknown.) <i>improper format</i>	
ST	288	DUMERY et al., " β -Amyloid protein aggregation: its implication in the physiopathology of Alzheimer's disease," <u>Pathol. Biol.</u> , 49:72-85 (2001).	
ST	225	Elan, "Elan and AHP Provide an Update on the Phase 2A Clinical Trial of AN-1792," Press Release. (1/28/2002).	

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Date Considered

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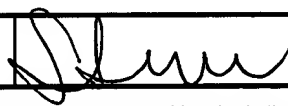
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Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	226	Elan, "Elan and Wyeth Provide Update on Status of Alzheimer's Collaboration," Press Release (3/1/2002).	
	289	ESIRI, "Is an effective immune intervention for Alzheimer's disease in prospect?," <u>Trends in Pharm. Sci.</u> , 22:2-3 (2001).	
	246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," <u>Vaccine</u> , 19:2615-2619 (2001).	
	247	FRENKEL et al., "Immunization against Alzheimer's β -amyloid plaques via EFRH phage administration," <u>PNAS USA</u> , 97:11455-11459 (2000).	
	248	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's β -amyloid peptide represents the epitope of its anti-aggregating antibodies," <u>J. of Neuroimmunology</u> , 88:85-90 (1998).	
	245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of β -amyloid peptide is essential for modulation of fibrillar aggregation," <u>J. of Neuroimmunology</u> , 95:136-142 (1999).	
	244	FRENKEL, et al., "Modulation of Alzheimer's β -amyloid neurotoxicity by site-directed single chain antibody," <u>J. of Neuroimmunology</u> , 106:23-31 (2000).	
	249	FRIEDLAND, et al., "Neuroimaging of Vessel Amyloid in Alzheimer's Disease," in <u>Cerebrovascular Pathology in Alzheimer's Disease</u> , eds. de la Torre and Hachinski, New York Academy of Sciences, New York, New York (1997).	
	251	GARDAELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <u>Biochem. Biophys. Res. Comm.</u> , 173:1292-1298 (1990).	
	252	GEDDES, "N-terminus truncated β -amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," <u>Neurobiology of Aging</u> , 20:75-79 (1999).	
	253	GIULIAN, et al., "The HHQK Domain of β -Amyloid Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <u>Journal of Biological Chem.</u> , 273:29719-29726 (1998).	
	303	GONZALES-FERNANDEZ et al., "Low antigen dose favors selection of somatic mutants with hallmarks of antibody affinity maturation," <u>Immunology</u> , 93:149-153 (1998).	
	237	GORTNER, <u>Outlines of Biochemistry</u> , pp. 322-323, John Wiley & Sons, Inc., New York (1949).	
	254	GRUBECK-LOEBENSTEIN, et al., "Immunization with β -amyloid: could T-cell activation have a harmful effect?," <u>TINS</u> , 23:114 (2000).	
	241	HAASS et al. "Amyloid beta-peptide is produced by cultured cells during normal metabolism," <u>Nature</u> , 359(6393):322-5 (1992).	

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,961
		Filing Date	November 28, 2000
		First Named Inventor	Schenk, Dale B.
		Group Art Unit	1647
		Examiner Name	Turner, Sharon
		Attorney Docket Number	15270J-004752US
Sheet	4	of	6

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
[Signature]	255	HARIGAYA, et al., "Modified amyloid β protein ending at 42 or 40 with different solubility accumulates in the brain of Alzheimer's disease," <u>Biochem. Biophys. Res. Comm.</u> , 211:1015-1022 (1995).	TECH CENTER 1600/2900
	229	HAZAMA, et al., "Intranasal Immunization Against Herpes Simplex Virus Infection by Using a Recombinant Glycoprotein D Fused With Immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2", <u>Immunology</u> , Vol. 78: 643-649 (1993).	
	236	HILBICH et al., "Human and rodent sequence analogs of Alzheimer's amyloid β A4 share similar properties and can be solubilized in buffers of pH 7.4," <u>Eur. J. Biochem.</u> , 201:61-69 (1991).	
	256	IKEDA, et al., "Immunogold labeling of cerebrovascular and neuritic plaque amyloid fibrils in Alzheimer's disease with an anti- β protein monoclonal antibody," <u>Lab. Invest.</u> , 57:446-449 (1987).	
	257	JEN, et al., "Preparation and purification of antisera against different regions or isoforms of b-amyloid precursor protein," <u>Brain Research Protocols</u> , 2:23-30 (1997).	
	258	KIDA, et al., "Early amyloid- β deposits show different immunoreactivity to the amino- and carboxy-terminal regions of b-peptide in Alzheimer's disease and Down's syndrome brain," <u>Neuroscience Letters</u> , 193:105-108 (1995).	
	259	LANSBURY, PETER T., "Inhibition of amyloid formation: a strategy to delay the onset of Alzheimer's disease," <u>Curr. Ops. in Chemical Biology</u> , 1:260-267 (1997).	
	260	LEMERE, et al., "Nasal A β treatment induces anti-A β antibody production and decreases cerebral amyloid burden in PD-APP mice," <u>Annals of the NY Acad. Sci.</u> , 920:328-331 (2000).	
	261	MAK, et al., "Polyclonals to b-amyloid (1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <u>Brain Research</u> , 667:138-142 (1994).	
	263	MANN, et al., "Amyloid β protein (A β) deposition in chromosome 14-linked Alzheimer's disease: Predominance of A β ₄₂₍₄₃₎ ," <u>Annals of Neurology</u> , 40:149-156 (1996).	
	262	MANN, et al., "The extent of amyloid deposition in brain in patients with Down's syndrome does not depend upon the apolipoprotein E genotype," <u>Neuroscience Letters</u> , 196:105-108 (1995).	
	264	McGeer, et al., "Immunohistochemical localization of beta-amyloid precursor protein sequences in Alzheimer and normal brain tissue by light and electron microscopy," <u>J. of Neuroscience Res.</u> , 31:428-442 (1992).	
	238	MCNEAL et al., "Stimulation of local immunity and protection in mice by intramuscular immunization with triple- or double-layered rotavirus particles and QS-21," <u>Virology</u> , 243:158-166 (1998).	
	265	Mena, et al., "Monitoring pathological assembly of tau and β -amyloid proteins in Alzheimer's disease," <u>Acta Neuropathol.</u> , 89:50-56 (1995).	
	233	MORRIS, et al., "The Consortium to Establish a registry for Alzheimer's Disease (CERAD)," <u>Neurology</u> , 39:1159-65 (1989).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,961
		Filing Date	November 28, 2000
		First Named Inventor	Schenk, Dale B.
		Group Art Unit	1647
		Examiner Name	Turner, Sharon
		Attorney Docket Number	15270J-004752US
Sheet	5	of	6

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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JA	250	NAKAMURA et al., "Histopathological studies on senile plaques and cerebral amyloid angiopathy in aged cynomolgus monkeys," <u>Exp. Anim.</u> , 43:711-718 (1995).	
	268	NAKAMURA, et al., "Carboxyl end-specific monoclonal antibodies to amyloid β protein (A β) subtypes (A β 40 and A β 42(43)) differentiate Ab in senile plaques and amyloid angiopathy in brains of aged cynomolgus monkeys," <u>Neuroscience Letters</u> , 201:151-154 (1995).	
	281	NAKAYAMA et al., "Histopathological studies of senile plaques and cerebral amyloidosis in cynomolgus monkeys," <u>J. of Med. Primatology</u> , 27:244-252 (1998).	
	235	NEWCOMBE and COHEN, "Solubility characteristics of isolated amyloid fibrils," <u>Biochim. Biophys. Acta</u> , 104:480-486 (1965).	
	280	PARDRIDGE et al., "Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier," <u>Biochem. Biophys. Res. Comm.</u> , 146:307-313 (1987).	
	232	PETERSON, et al., "Recombinant Antibodies: Alternative Strategies for Developing and Manipulating Murine-Derived Monoclonal Antibodies," <u>Laboratory Animal Science</u> , 46(1):8-14 (1996).	
	269	PHILIPPE, et al. "Generation of a monoclonal antibody to the carboxy-terminal domain of tau by immunization with the amino-terminal domain of the amyloid precursor protein," <u>J. of Neuroscience Res.</u> , 46:709-719 (1996).	
	304	RASO, V.A. Grant application # 1 R43 AG 5746-01 (non-redacted version), "Immunotherapy of Alzheimer's Disease" (publication date unknown). <i>improper format</i>	
	279	SAITO et al., "Vector-mediated delivery of ¹²⁵ I-labeled β -amyloid peptide Ab ¹⁻⁴⁰ through the blood-brain barrier and binding to Alzheimer disease amyloid of the A β ¹⁻⁴⁰ vector complex," <u>PNAS USA</u> , 92:10227-10231 (1995).	
	278	SAITOH, N. and K. IMAI, "Immunological analysis of Alzheimer's disease using anti- β -protein monoclonal antibodies," <u>Sapporo Med. J.</u> , 60:309-320 (1991).	
JA	277	SASAKI et al., "Human choroid plexus is an uniquely involved area of the brain in amyloidosis: a histochemical, immunohistochemical and ultrastructural study," <u>Brain Res.</u> , 755:193-201 (1997).	
	270	SCHENK, et al., " β -peptide immunization," <u>Arch. Neurol.</u> , 57:934-936 (2000).	
	271	ST. GEORGE-HYSLOP, PETER H. and DAVID A. WESTAWAY, "Antibody clears senile plaques," <u>Nature</u> , 40:116-117 (1999).	
	272	SZENDREI, et al., "The effects of aspartic acid-bond isomerization on <i>in vitro</i> properties of the amyloid β -peptide as modeled with N-terminal decapeptide fragments," <u>Int. J. Peptide Protein Res.</u> , 47:289-296 (1996).	
	273	THORSETT, E.D. and L.H. LATIMER, "Therapeutic approaches to Alzheimer's disease," <u>Curr. Op. in Chem. Biology</u> , 4:377-382 (2000).	

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				Filing Date	November 28, 2000
				First Named Inventor	Schenk, Dale B.
				Group Art Unit	1647
				Examiner Name	Turner, Sharon
Sheet	6	of	6	Attorney Docket Number	15270J-004752US

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80	276	TJERNBERG et al., "Arrest of β -amyloid fibril formation by a pentapeptide ligand," <u>Journal of Biological Chemistry</u> , 271:8545-8548 (1996).	
80	274	WEINER et al., "Nasal administration of amyloid- β peptide decreases cerebral amyloid burden in a mouse model of Alzheimer's disease," <u>Annals of Neurology</u> , 48:567-579 (2000).	
	223	Wisconsin Alumni Research Foundation, "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals", U.S. Govt. Res. Develop. Rep. 70(24):56 (Publication date unknown) <i>improper format</i>	
50	275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monoclonal antibody to the human insulin receptor," <u>J. Clin. Invest.</u> , 100:1804-1812 (1997).	
	292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <u>Acta Neuropathol.</u> , 95:217-222 (1998).	
50	290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <u>Nature Medicine</u> , 7:18-19 (2001).	

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Sheet

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13

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Application Number

09/724,981

Filing Date

November 28, 2000

First Named Inventor

Dale B. Schenk

Art Unit

1647

Examiner Name

Sharon Turner NICHOLS

Attorney Docket Number

15270J-004752US

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No. ¹	Document Number Number Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CSN	326	2002/0136718 A1	09-28-2002	Raso	
	325	2001/0102261 A1	08-01-2002	Raso	
	306	6,417,178 B1	07-09-2002	Klunk et al.	
	267	6,294,171 B2	09-25-2001	McMichael	
	234	6,284,221 B1	09-04-2001	Schenk, et al.	
	300	2001/0018053 A1	08-30-2001	McMichael	
	230	6,262,335 B1	07-17-2001	Hslao et al.	
	305	09/724,842	11-28-2000	Chalifour et al.	
	231	6,114,133	09-05-2000	Seubert et al.	
	221	5,989,568	11-23-1999	Cobb et al.	
	283	09/441,140	11-16-1999	Solomon et al.	
	321	5,837,672	11-17-1998	Schenk et al.	
	320	5,593,846	01-14-1997	Schenk et al.	
CSN	284	5,231,170	07-27-1993	Averback	
	242	60/168,594	N/A	Chalifour et al.	
	282	60/169,687	N/A	Chain	
	295	60/184,601	N/A	Holtzman et al.	
	296	60/254,465	N/A	Holtzman et al.	
	297	60/254,498	N/A	Holtzman et al.	
	299	60/186,295	N/A	Rasmussen et al.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2

of

13

Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner - <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Country Code ²	Number ⁴	Kind Code ⁵ (if known)				
<i>GD</i>	294	WO	01/62801	A2	08-30-2001			
	301	WO	01/62284	A2	03-01-2000			
	298	WO	01/42306	A2	06-14-2001			
	243	WO	01/39796	A2	06-07-2001			
	322	WO	00/72880	A2, A3	12-07-2000			
	323	WO	00/72876	A2, A3	12-07-2000			
	324	WO	00/72870	A1	12-07-2000			
	240	WO	00/43039	A1	07-27-2000			
	331	WO	99/06545	A2	11-02-1999			
<i>GD</i>	227	WO	95/11008	A2	04-27-1995			

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Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,981
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Sharon Turner NICHOLS
Sheet 3 of 13	Attorney Docket Number	15270J-004752US	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
GW	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" <u>J. Mol. Biol.</u> , 225(4): 1075-1093 (1992).	
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging," Reuters, April 20, 2001 7:56 PM ET.	
	327	CAMERON, "Recent Advances in Transgenic Technology," <u>Molecular Biotechnology</u> , 7:253-265 (1997).	
GW	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <u>Clin. Neuropharm.</u> , 15:414A-414B (1992).	
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at: http://www.fda.gov/cber/vaccine/thimerosal.htm, last updated May 16, 2002.	
GW	266	CHAPMAN, PAUL F., "Model behavior," <u>Nature</u> , 408:915-916 (2000).	
GW	222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database. (Publication date unknown.)	

Examiner Signature	<i>G. Nichols</i>	Date Considered	4/29/2003
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,961
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Sharon Turner NICHOLS
		Attorney Docket Number	13270J-004752US
Sheet	4	of	13

CSW	307	CHEN, et al. A learning deficit related to age and beta-amyloid plaques in a mouse model of Alzheimer's disease. <u>Nature</u> , 408(6815):975-9 (2000).
	332	CHEN, et al., "Neurodegenerative Alzheimer-like pathology in PDAPP 717V→F transgenic mice," <u>Progress in Brain Research</u> , Van Leeuwen et al. Eds, 117:327-337 (1998).
	302	CHUNG et al. "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <u>J. Biol. Chem.</u> , 274(45):32301-32308 (1999).
	291	COLOMA et al., "Transport Across the Primate Blood-Brain Barrier of a Genetically Engineered Chimeric Monoclonal Antibody to the Human Insulin Receptor," <u>Pharm. Res.</u> , 17:266-274 (2000).
	333	CONWAY et al., "Acceleration of oligomerization, not fibrillization, is a shared property of both α -synuclein mutations linked to early-onset, Parkinson's disease: Implications for pathogenesis and therapy," <u>PNAS</u> , 97(2):571-576 (2000)
	286	CORDELL, B., " β -Amyloid formation as a potential therapeutic target for Alzheimer's disease," <u>Ann. Rev. Pharmacol. Toxicol.</u> , 34:69-89 (1994).
↓	287	COSTA et al., "Immunoassay for transthyretin variants associated with amyloid neuropathy," <u>Scand. J. Immunol.</u> , 38:177-182 (1993).
CSW	293	DALY, et al., "Detection of the membrane-retained carboxy-terminal tail containing polypeptides of the amyloid precursor protein in tissue from Alzheimer's Disease brain," <u>Life Sci.</u> , 63:2121-2131 (1998).

Examiner Signature	<i>G. Nichols</i>	Date Considered	4/29/2003
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5 of 13

Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

	220	Dialog/Derwent, Abstract of WPI Acc No: 1997-054436/199706: Stable vaccine compns. comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol. organic solvent and saline or water, Derwent File 361: Derwent WPI database. (Publication date unknown):
<i>CS</i>	318	DU, et al. Reduced levels of amyloid beta-peptide antibody in Alzheimer disease. <i>Neurology</i> . 57(5):801-5 (2001).
	288	DUMERY et al., " β -Amyloid protein aggregation; its implication in the physiopathology of Alzheimer's disease," <i>Pathol. Biol.</i> , 49:72-85 (2001).
	225	Elan, "Elan and AHP Provide an Update on the Phase 2A Clinical Trial of AN-1792," Press Release. (1/28/2002).
	226	Elan, "Elan and Wyeth Provide Update on Status of Alzheimer's Collaboration," Press Release (3/1/2002)
	289	ESIRI, "Is an effective immune intervention for Alzheimer's disease in prospect?," <i>Trends in Pharm. Sci.</i> , 22:2-3 (2001).
	328	FELSENSTEIN et al., "Transgenic Rat and In-Vitro Studies of B-Amyloid Precursor Protein Processing;" <i>Alzheimer's and Parkinson's Diseases</i> , Hanin et al. Ed., pp 401-409, Plenum Press, New York, (1995).
<i>↓</i>	246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," <i>Vaccine</i> , 19:2615-2619 (2001).
<i>CS</i>	245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of β -amyloid peptide is essential for modulation of fibrillar aggregation," <i>J. of Neuroimmunology</i> , 95:136-142 (1999).

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Considered

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Sheet 6

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Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

CSW	247	FRENKEL et al., "Immunization against Alzheimer's β -amyloid plaques via EFRH phage administration," <u>PNAS USA</u> , 97:11455-11459 (2000).
	248	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's β -amyloid peptide represents the epitope of its anti-aggregating antibodies," <u>J. of Neuroimmunology</u> , 88:85-90 (1998).
	244	FRENKEL, et al., "Modulation of Alzheimer's β -amyloid neurotoxicity by site-directed single chain antibody," <u>J. of Neuroimmunology</u> , 106:23-31 (2000).
	249	FRIEDLAND, et al., "Neuroimaging of Vessel Amyloid in Alzheimer's Disease," In <u>Cerebrovascular Pathology in Alzheimer's Disease</u> , eds. de la Torre and Hachinski, New York Academy of Sciences, New York, New York (1997).
	251	GARDELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <u>Biochem. Biophys. Res. Comm.</u> , 173:1292-1298 (1990).
	252	GEDDES, "N-terminus truncated β -amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," <u>Neurobiology of Aging</u> , 20:75-79 (1999).
	253	GIULIAN, et al., "The-HHQQ Domain of b-Amyloid Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <u>Journal of Biological Chem.</u> , 273:29719-29726 (1998).
CSW	303	GONZALES-FERNANDEZ et al., "Low antigen dose favors selection of somatic mutants with hallmarks of antibody affinity maturation," <u>Immunology</u> , 93:149-153 (1998).

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Date

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,981
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Sharon Turner NICHOLS
Sheet 7 of 13	Attorney Docket Number	15270J-004752US	

CTW	237	GORTNER, <u>Outlines of Biochemistry</u> , pp. 322-323, John Wiley & Sons, Inc., New York (1949).
	254	GRUBECK-LOEBENSTEIN, et al., "Immunization with β -amyloid: could T-cell activation have a harmful effect?", <u>JINS</u> , 23:114 (2000).
	241	HAASS et al. "Amyloid beta-peptide is produced by cultured cells during normal metabolism," <u>Nature</u> , 359(6393):322-5 (1992).
	255	HARIGAYA, et al., "Modified amyloid β protein ending at 42 or 40 with different solubility accumulates in the brain of Alzheimer's disease," <u>Biochem. Biophys. Res. Comm.</u> , 211:1015-1022 (1995).
	229	HAZAMA, et al., "Intranasal Immunization Against Herpes Simplex Virus Infection by Using a Recombinant Glycoprotein D Fused With Immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2", <u>Immunology</u> , Vol. 78: 643-649 (1993).
	236	HILBICH et al., "Human and rodent sequence analogs of Alzheimer's amyloid β A4 share similar properties and can be solubilized in buffers of pH 7.4," <u>Eur. J. Biochem.</u> , 201:61-69 (1991).
	256	IKEDA, et al., "Immunogold labeling of cerebrovascular and neuritic plaque amyloid fibrils in Alzheimer's disease with an anti- β protein monoclonal antibody," <u>Lab. Invest.</u> , 57:446-449 (1987).
↓	308	JANUS, et al. A beta peptide immunization reduces behavioural impairment and plaques in a model of Alzheimer's disease. <u>Nature</u> , 408(6815):979-82 (2000).
CTW	257	JEN, et al., "Preparation and purification of antisera against different regions or isoforms of β -amyloid precursor protein," <u>Brain Research Protocols</u> , 2:23-30 (1997).

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Sheet 8

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Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sheron Turner NICHOLS
Attorney Docket Number	15270J-004752US

CD	334	JOBLING and HOLMES, "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <u>Molecular Microbiology</u> , 5(7):1755-1767 (1991).
	258	KIDA, et al., "Early amyloid- β deposits show different immunoreactivity to the amino- and carboxy-terminal regions of b-peptide in Alzheimer's disease and Down's syndrome brain," <u>Neuroscience Letters</u> , 193:105-108 (1995).
	259	LANSBURY, PETER T., "Inhibition of amyloid formation: a strategy to delay the onset of Alzheimer's disease," <u>Curr. Ops. in Chemical Biology</u> , 1:260-267 (1997).
	260	LEMERE, et al., "Nasal A β treatment induces anti-A β antibody production and decreases cerebral amyloid burden in PD-APP mice," <u>Annals of the NY Acad. Sci.</u> , 920:328-331 (2000).
	261	MAK, et al., "Polyclonals to b-amyloid (1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <u>Brain Research</u> , 667:138-142 (1994).
	263	MANN, et al., "Amyloid β protein (A β) deposition in chromosome 14-linked Alzheimer's disease: Predominance of A β ₄₂₍₄₃₎ ," <u>Annals of Neurology</u> , 40:149-156 (1996).
	262	MANN, et al., "The extent of amyloid deposition in brain in patients with Down's syndrome does not depend upon the apolipoprotein E genotype," <u>Neuroscience Letters</u> , 196:105-108 (1995).
CD	335	MASLIAH et al., " β -Amyloid peptides enhance α -synuclein accumulation and neuronal deficits in a transgenic mouse model linking Alzheimer's disease and Parkinson's disease," <u>PNAS</u> , 98(21):12245-12250 (2001).

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G. Nichols

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**INFORMATION DISCLOSURE
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Sheet

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13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sheren Turner NICHOLS
Attorney Docket Number	15270J-004752US

309	MATTSON, Cellular actions of beta-amyloid precursor protein and its soluble and fibrillogenic derivatives. <u>Physiol Rev.</u> 77(4):1081-132 (1997).
264	MCGEER, et al., "Immunohistochemical localization of beta-amyloid precursor protein sequences in Alzheimer and normal brain tissue by light and electron microscopy," <u>J. of Neuroscience Res.</u> 31:428-442 (1992).
238	MCNEAL et al., "Stimulation of local immunity and protection in mice by intramuscular immunization with triple- or double-layered rotavirus particles and QS-21," <u>Virology</u> , 243:158-166 (1998).
265	MENA, et al., "Monitoring pathological assembly of tau and β -amyloid proteins in Alzheimer's disease," <u>Acta Neuropathol.</u> , 89:50-56 (1995).
310	MERLUZZI, et al. Humanized antibodies as potential drugs for therapeutic use. <u>Adv Clin Path.</u> 4(2):77-85 (2000).
311	MORGAN, et al. A beta peptide vaccination prevents memory loss in an animal model of Alzheimer's disease. <u>Nature</u> . 408(6815):982-5 (2000).
233	MORRIS, et al., "The Consortium to Establish a registry for Alzheimer's Disease (CERAD)," <u>Neurology</u> , 39:1159-65 (1989).
250	NAKAMURA et al., "Histopathological studies on senile plaques and cerebral amyloid angiopathy in aged cynomolgus monkeys," <u>Exp. Anim.</u> , 43:711-718 (1995).
268	NAKAMURA, et al., "Carboxyl end-specific monoclonal antibodies to amyloid β protein ($A\beta$) subtypes ($A\beta_{40}$ and $A\beta_{42(43)}$) differentiate $A\beta$ in senile plaques and amyloid angiopathy in brains of aged cynomolgus monkeys," <u>Neuroscience Letters</u> , 201:151-154 (1995).

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Sheet 10 of 13

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Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

281	NAKAYAMA et al., "Histopathological studies of senile plaques and cerebral amyloidosis in cynomolgus monkeys," <u>J. of Med. Primatology</u> , 27:244-252 (1998).
235	NEWCOMBE and COHEN, "Solubility characteristics of isolated amyloid fibrils," <u>Biochim. Biophys. Acta</u> , 104:480-486 (1965).
329	NIEMANN, "Transgenic farm animals get off the ground," <u>Transgenic Research</u> 7:73-75 (1998).
280	PARDRIDGE et al., "Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier," <u>Biochem. Biophys. Res. Comm.</u> , 146:307-313 (1987).
336	PERUTZ et al., "Amyloid fibers are water-filled nanotubes," <u>PNAS</u> , 99(8):5591-5595 (2002).
232	PETERSON, et al., "Recombinant Antibodies: Alternative Strategies for Developing and Manipulating Murine-Derived Monoclonal Antibodies," <u>Laboratory Animal Science</u> , 46(1):8-14 (1996).
269	PHILIPPE, et al. "Generation of a monoclonal antibody to the carboxy-terminal domain of tau by immunization with the amino-terminal domain of the amyloid precursor protein," <u>J. of Neuroscience Res.</u> , 46:709-719 (1996).
304	RAGO, V.A., Grant application # 1 R43 AG 5746-01 (non-redacted version), "Immunotherapy of Alzheimer's Disease" (publication date unknown).
279	SAITO et al., "Vector-mediated delivery of ¹²⁵ I-labeled β -amyloid peptide Ab ¹⁻⁴⁰ through the blood-brain barrier and binding to Alzheimer disease amyloid of the Ab ¹⁻⁴⁰ vector complex," <u>PNAS USA</u> , 92:10227-10231 (1995).

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Sheet 11 of 13

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Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

<i>CSO</i>	278	SAITOH, N. and K. IMAI, "Immunological analysis of Alzheimer's disease using anti- β -protein monoclonal antibodies," <u>Sapporo Med. J.</u> , 60:309-320 (1991).
	277	SASAKI et al., "Human choroid plexus is an uniquely involved area of the brain in amyloidosis: a histochemical, immunohistochemical and ultrastructural study," <u>Brain Res.</u> , 755:193-201 (1997).
	312	SCHENK, et al. Immunotherapy with beta-amyloid for Alzheimer's disease: a new frontier. <u>DNA Cell Biol.</u> 20(11):679-81 (2001).
	270	SCHENK, et al., " β -peptide immunization," <u>Arch. Neurol.</u> , 57:934-938 (2000).
	313	SELKOE, The cell biology of beta-amyloid precursor protein and presenilin in Alzheimer's disease. <u>Trends Cell Biol.</u> 8(11):447-53 (1998).
	330	SIGMUND, "Viewpoint: Are Studies in Genetically Altered Mice Out of Control," <u>Arterioscler Thromb Vasc Biol.</u> , 20:1425-1429 (2000).
	314	SIGURDSSON, et al. In vivo reversal of amyloid-beta lesions in rat brain. <u>J Neuropathol Exp Neurol.</u> 59(1):11-17 (2000).
	315	SINHA, et al. Recent advances in the understanding of the processing of APP to beta-amyloid peptide. <u>Ann N Y Acad Sci.</u> 920:206-8 (2000).
<i>↓</i>	337	SKOLNICK and FETROW, "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <u>Trends in Biotech.</u> 18(1):34-39 (2000).
<i>CSO</i>	319	SMALL, et al. Alzheimer's disease and Abeta toxicity: from top to bottom. <u>Nat Rev Neurosci.</u> 2(8):595-8 (2001).

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,961
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Sharon Turner-Nichols
Sheet 12 of 13	Attorney Docket Number	15270J-004752US	

316	SOTO, et al. Beta sheet breaker peptides inhibit fibrillogenesis in a rat brain model of amyloidosis: Implications for Alzheimer's therapy. <u>Nat Med.</u> 4(7):822-6 (1998).
271	ST. GEORGE-HYSLOP, PETER H. and DAVID A. WESTAWAY, "Antibody clears senile plaques," <u>Nature</u> , 40:116-117 (1999).
338	STEIN and JOHNSON, "Lack of Neurodegeneration in Transgenic Mice Overexpressing Mutant Amyloid Precursor Protein is Associated with Increased Levels of Transthyretin and Activation of Cell Survival Pathways," <u>The Journal of Neuroscience</u> , 22(17):7380-7388 (September 1, 2002).
272	SZENDREI, et al., "The effects of aspartic acid-bond isomerization on in vitro properties of the amyloid β -peptide as modeled with N-terminal decapeptide fragments," <u>Int. J. Peptide Protein Res.</u> , 47:289-296 (1996).
339	TENNENT et al., "Serum amyloid P component prevents proteolysis of the amyloid fibrils of Alzheimer's disease and systemic amyloidosis," <u>PNAS</u> , 92:4299-4303 (1995).
273	THORSETT, E.D. and L.H. LATIMER, "Therapeutic approaches to Alzheimer's disease," <u>Curr. Op. in Chem. Biology</u> , 4:377-382 (2000).
276	TJERNBERG et al., "Arrest of β -amyloid fibril formation by a pentapeptide ligand," <u>Journal of Biological Chemistry</u> , 271:8545-8548 (1996).
317	VEHMAS, et al. beta-Amyloid peptide vaccination results in marked changes in serum and brain Abeta levels in APP ^{swe/PS1.DeltaE9} mice, as detected by SELDI-TOF-based-ProteinChip® technology. <u>DNA-Cell Biol.</u> (11):713-21 (2001).

Examiner Signature	<i>S. Nichols</i>	Date Considered	4/29/03
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Sheet 13 of 13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

274	WEINER et al., "Nasal-administration of amyloid- β peptide decreases cerebral amyloid burden in a mouse model of Alzheimer's disease," <u>Annals of Neurology</u> , 48:567-579 (2000).
223	WISCONSIN ALUMNI RESEARCH FOUNDATION, "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals", U.S. Govt. Res. Develop. Rep., 70(24), 56. (Publication date unknown.)
275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monoclonal antibody to the human insulin receptor," <u>J. Clin. Invest.</u> , 100:1804-1812 (1997).
292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <u>Acta Neuropathol.</u> , 95:217-222 (1998).
290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <u>Nature Medicine</u> , 7:18-19 (2001).

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